

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. ELITRA.001A	APPLICATION NO. 09/492,709
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Zyskind, et al.	
		FILING DATE January 27, 2000	GROUP 1631

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
DM	1	5,082,767	1/21/92	Hatfield, et al.	435	6	
	2	5,142,047	8/25/92	Summerton, et al.	544	118	
	3	5,405,775	4/11/95	Inouye, et al.	435	252.33	
	4	5,463,564	10/31/95	Agrafiotis, et al.	364	496	
	5	5,574,656	11/12/96	Agrafiotis, et al.	364	500	
	6	5,612,180	03/18/97	Brown, et al.	435	6	
	7	5,639,603	06/17/97	Dower, et al.	435	6	
	8	5,684,711	11/4/97	Agrafiotis, et al.	364	500	
	9	5,807,522	9/15/98	Brown, et al.	422	50	
	10	5,972,708	10/26/99	Sherratt, et al.	435	479	
	11	6,139,817	10/31/00	Palmer, et al.	424	9.1	
	12	6,248,525 B1	06/19/01	Nilsen	435	6	
	13	6,303,115 B1	10/16/01	Natsoulis	424	93.2	

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
DM	14	WO 95/02823	01/26/95	PCT, Brann				
	15	WO 96/17951	06/13/96	PCT, Holden et al.				
	16	WO 99/33871	07/8/99	PCT, Youngman et al.				
	17	WO 99/54728	10/28/99	PCT, Paige et al.				
	18	WO 01/09164 A2	02/08/01	PCT, O'Donnell et al.				
	19	WO 01/11081 A2	02/15/01	PCT, Proguloke-Fox et al.				
	20	WO 01/34809 A2	05/17/01	PCT, Kiamerly et al.				
	21	WO 01/49775 A2	07/12/01	PCT, Ineson				

EXAMINER

A. L. Marshall

DATE CONSIDERED

4-23-02

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PATENT AND TRADEMARK OFFICE

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
AM	22 Almarsson, et al. 1993. Peptide nucleic acid (PNA) conformation and polymorphism in PNA-DNA and PNA-RNA hybrids. <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 90:9542-9546
AM	23 Altschul, et al. 1990. Basic local alignment search tool. <i>J. Mol. Biol.</i> , 215:403-10.
AM	24 Altschul, et al. 1997. Gapped BLAST and PSI-BLAST: A new generation of protein database search programs. <i>Nucleic Acid Res.</i> , 25(17): 3389-3402
AM	25 Arigoni, et al. 1998. A genome-based approach for the identification of essential bacterial genes. <i>Nature Biotechnology</i> , 16: 851-856.
AM	26 Ausubel, et al. (Eds.). 1997. Current Protocols in Molecular Biology, Vol. 1, Unit 1.8.1-1.8.10. John Wiley & Sons, Inc.
AM	27 Basu, et al. 1997. Synthesis and characterization of a peptide nucleic acid conjugated to a D-peptide analog of insulin-like growth factor 1 for increased cellular uptake. <i>Bioconjugate Chem.</i> , 8:481-488.
AM	28 Bentin, et al. 1996. Enhanced peptide nucleic acid binding to supercoiled DNA: Possible implications for DNA "breathing" dynamics. <i>Biochemistry</i> , 35:8863-8869.
AM	29 Cao, et al. 1993. Expression and functional analysis of steroid receptor fragments secreted from <i>Staphylococcus aureus</i> . <i>J. Steroid Biochem Molec. Biol.</i> , 44(1):1-11.
AM	30 Cotrim, et al. 1999. Isolation of genes mediating resistance to inhibitors of nucleoside and ergosterol metabolism in <i>Leishmania</i> by overexpression/selection. <i>Journal of Biological Chemistry</i> , 274(53):37723-37730.
AM	31 Demidov, et al. 1995. Kinetics and mechanism of polyamide ("peptide") nucleic acid binding to duplex DNA. <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 92:2637-2641
AM	32 Demidov, et al. 1993. Sequence selective double strand DNA cleavage by Peptide Nucleic Acid (PNA) targeting using nuclease S1. <i>Nucl. Acids Res.</i> , 21(9):2103-2107.
AM	33 Demidov, et al. 1994. Stability of peptide nucleic acids in human serum and cellular extracts. <i>Biochem. Pharm.</i> , 48(6):1010-1013
AM	34 Egholm, et al. 1995. Efficient pH-independent sequence-specific DNA binding by pseudisocytosine-containing bis-PNA. <i>Nucleic Acids Res.</i> , 23(2):217-222.
AM	35 Egholm, et al. 1993. PNA hybridizes to complementary oligonucleotides obeying the Watson-Crick hydrogen-bonding rules. <i>Nature</i> , 365:566-568.
AM	36 Egholm, et al. 1992. Recognition of Guanine and Adenine in DNA by Cytosine and Thymine Containing Peptide Nucleic Acids (PNA). <i>J. Am. Chem. Soc.</i> , 114(24):9677-9678.
AM	37 Engvall, E. 1980. Enzyme Immunoassay ELISA and EMIT. <i>Meth. Enzymol.</i> , 70:419-439.
AM	38 Etzold, et al. 1993. Sequence Retrieval System (SRS). SRS-An indexing and retrieval tool for flat file data libraries. <i>Comput. Appl. Biosci.</i> , 9(1):49-57.
AM	39 Gallop, et al. 1994. Applications of Combinatorial Technologies to Drug Discovery. 1. Background and Peptide Combinatorial Libraries. <i>Journal of Medicinal Chemistry</i> , 37(9):1233-1251.
AM	40 Griffin, et al. 1989. Recognition of Thymine Adenine Base Pairs by Guanine in a Pyrimidine Triple Helix Motif. <i>Science</i> , 245:967-971.
AM	41 Griffith, et al. Single and bis peptide nucleic acids as triplexing agents. <i>Binding and Stoichiometry</i> . 1995. <i>J. Am. Chem. Soc.</i> , 117:831-832
AM	42 Hamilton, et al. 1989. New method for generating deletions and gene replacements in <i>Escherichia coli</i> . <i>J. Bacteriol.</i> , 171(9):4617-4622.
AM	43 Harvey, et al. 1992. Antisense and antigene properties of peptide nucleic acids. <i>Science</i> , 258:1481-1484.
AM	44 Hensel, et al. 1995. Simultaneous identification of bacterial virulence genes by negative selection. <i>Science</i> , 269:400-403.
AM	45 Hirschman, et al. 1996. Peptide nucleic acids stimulate gamma interferon and inhibit the replication of the human immunodeficiency virus. <i>J. Invest. Med.</i> , 44(6):347-351.
AM	46 Ho, et al. 1989. Site-directed mutagenesis by overlap extension using the polymerase chain reaction. <i>Gene</i> , 77:51-59.
AM	47 Horton, et al. 1989. Engineering hybrid genes without the use of restriction enzymes: Gene splicing by overlap extension. <i>Gene</i> , 77:61-68.
AM	48 Huerta, et al. 1998. RegulonDB: A database on transcriptional regulation in <i>Escherichia coli</i> . <i>Nucl. Acids Res.</i> , 26(1):55-59.
AM	49 Kohler, et al. 1975. Continuous cultures of fused cells secreting antibody of predefined specificity. <i>Nature</i> , 256:495-497.
AM	50 Krause, et al. 1997. Complexes at the replication origin of <i>Bacillus subtilis</i> with homologous and heterologous dnaA protein. <i>J. Mol. Biol.</i> , 274:365-380.

EXAMINER <i>Adam Mansley</i>	DATE CONSIDERED <i>4-23-02</i>
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EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
AM	51 Le Good, et al. 1998. Protein kinase C isotypes controlled by phosphoinositide 3-kinase through the protein kinase PDK1. <i>Science</i> , 281:2042-2045.
AM	52 Link, et al. 1997. Methods for Generating Precise Deletions and Insertions in the Genome of Wild-Type <i>Escherichia coli</i> : Application to Open Reading Frame Characterization. <i>J. Bacteriol.</i> , 179(20):6228-6237.
AM	53 Margolis, et al. 2000. Peptide Deformylase in <i>Staphylococcus aureus</i> : Resistance to Inhibition is Mediated by Mutations in the Formyltransferase Gene <i>Antimicrobial Agents and Chemotherapy</i> , 44(7):1825-1831.
AM	54 Matsukura, et al. 1988. Synthesis of phosphorothioate analogues of oligodeoxyribonucleotides and their antiviral activity against human immunodeficiency virus (HIV). <i>Gene</i> , 72:343.
AM	55 Mollegaard, et al. 1994. Peptide nucleic acid DNA strand displacement loops as artificial transcription promoters. <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 91:3892-3895.
AM	56 Nielsen, et al. 1991. Sequence-selective recognition of DNA by strand displacement with a thymine-substituted polyamide. <i>Science</i> , 254:1497-1500.
AM	57 Nielsen, et al. 1993. Sequence specific inhibition of DNA restriction enzyme cleavage by PNA. <i>Nucl. Acids. Res.</i> , 21(2):197-200.
AM	58 Nielsen, et al. 1994. Sequence-specific transcription arrest by peptide nucleic acid bound to the DNA template strand. <i>Gene</i> , 149:139-145.
AM	59 Norton, et al. 1996. Inhibition of human telomerase activity by peptide nucleic acids. <i>Nature Biotechnol.</i> , 14:615-619.
AM	60 Pardridge, et al. 1995. Vector-mediated delivery of a polyamide ("peptide") nucleic acid analogue through the blood-brain barrier <i>in vivo</i> . <i>Proc. Natl. Acad. Sci. U.S.A.</i> , 92:5592-5596.
AM	61 Pearson, W. R. 1990. Rapid and sensitive sequence comparison with FASTP and FASTA. <i>Methods in Enzymology</i> , 183:63-98.
AM	62 Plá, et al. 1990. Cloning and expression of the <i>ponB</i> gene, encoding penicillin-binding protein 1B of <i>Escherichia coli</i> , in heterologous systems. <i>J. Bacteriol.</i> , 172(8):4448-4455.
AM	63 Rossi, et al. 1991. The potential use of catalytic RNAs in therapy of HIV infection and other diseases. <i>Pharmac. Ther.</i> , 50:245-254.
AM	64 Rudd, K. E. 1998. Linkage map of <i>Escherichia coli</i> K-12, edition 10: The physical map. <i>Micro. & Mol. Biol. Rev.</i> , 62(3):985-1019.
AM	65 Schena, et al. 1995. Quantitative monitoring of gene expression patterns with a complementary DNA microarray. <i>Science</i> , 270:467-470.
AM	66 Shalon, et al. 1996. A DNA microarray system for analyzing complex DNA samples using two-color fluorescent probe hybridization. <i>Genome Research</i> , 6:639-645.
AM	67 Tao, et al. 2000. Drug target validation: Lethal infection blocked by inducible peptide. <i>PNAS</i> , 97(2):783-786.
AM	68 Uhlmann, et al. 1990. Antisense Oligonucleotides: A New Therapeutic Principle. <i>Chemical Reviews</i> , 90(4):543-584.
AM	69 Vaitukaitis, et al. 1971. A method for producing specific antisera with small doses of immunogen. <i>J. Clin. Endocr. Metab.</i> , 33:988-991.
AM	70 Zhang, et al. 1996. Polar Allele Duplication for Transcriptional analysis of consecutive essential genes: Application to a cluster of <i>Escherichia coli</i> fatty acid biosynthetic genes. <i>J. Bacteriol.</i> , 178(12):3614-3620.
AM	71 Zhang, et al. 2000. Regulated Gene Expression in <i>Staphylococcus aureus</i> for Identifying Conditional Lethal Phenotypes and Antibiotic Mode of Action. <i>Gene</i> , 255:297-305.

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